

# SYSTEM AND METHOD USING ION GAP SENSING FOR OPTIMIZATION OF A MULTI-SPARK EVENT IN A MARINE ENGINE

## Abstract

A system and method for controlling an ignition system includes an engine having a combustion chamber and a spark plug is disposed within the combustion chamber. An ECU is configured to execute a multi-spark event. The ECU is configured to cause the spark plug to execute the multi-spark event and discontinue the multi-spark event if a conductivity indicative of combustion is detected in the combustion chamber.